Practice worksheet | Linear and exponential models

# Constructing and interpreting straight-line models

Name: _____ Date: _____

6 questions | 12 marks

**1.** Find the line through $(0, 6)$ and $(4, 18)$. [2 marks]

**2.** Find the line through $(3, 8)$ and $(7, 20)$. [2 marks]

**3.** A machine has a setup cost of 250 dollars and costs 7 dollars per item. Model total cost. [2 marks]

**4.** A tank contains 80 L and loses 5 L/min. Write the rule and physical time domain. [2 marks]

**5.** Explain why $d = 12t$ passes through the origin when $d$ is distance travelled and $t$ is elapsed time. [2 marks]

**6.** Are $(0, 2), (1, 5), (2, 10)$ exactly linear? Explain. [2 marks]